#### 110TH CONGRESS 2D SESSION

# S. 2940

To promote green energy production, and for other purposes.

#### IN THE SENATE OF THE UNITED STATES

April 30, 2008

Mr. Brown introduced the following bill; which was read twice and referred to the Committee on Energy and Natural Resources

# A BILL

To promote green energy production, and for other purposes.

- 1 Be it enacted by the Senate and House of Representa-
- 2 tives of the United States of America in Congress assembled,
- 3 SECTION 1. SHORT TITLE; TABLE OF CONTENTS.
- 4 (a) Short Title.—This Act may be cited as the
- 5 "Green Energy Production Act of 2008".
- 6 (b) Table of Contents.—The table of contents of
- 7 this Act is as follows:
  - Sec. 1. Short title; table of contents.
  - Sec. 2. Definitions.
  - Sec. 3. Establishment of program.
  - Sec. 4. Green Technology Investment Corporation.
  - Sec. 5. Green Technology Investment Fund.
  - Sec. 6. Component programs.
  - Sec. 7. Criteria for provision of grants, loans, and other assistance.
  - Sec. 8. Energy efficiency grants.
  - Sec. 9. Administration.
  - Sec. 10. Authorization of appropriations.

## 1 SEC. 2. DEFINITIONS.

2	In this Act:
3	(1) Administrator.—The term "Adminis-
4	trator" means the Administrator of the Environ-
5	mental Protection Agency.
6	(2) BIOMASS.—The term "biomass" has the
7	meaning given the term "renewable biomass" in sec-
8	tion 211(o)(1) of the Clean Air Act (42 U.S.C.
9	7545(0)(1)).
10	(3) Environmentally protective.—The
11	term "environmentally protective" means, with re-
12	spect to technology, technology that—
13	(A) is most likely to result in the least im-
14	pact to land, forests, water quantity and qual-
15	ity, air quality, and wildlife habitat; and
16	(B) possesses the highest potential for
17	long-term sustained production of green energy.
18	(4) Green energy.—
19	(A) IN GENERAL.—The term "green en-
20	ergy" has the meaning given the term "renew-
21	able energy".
22	(B) Inclusion.—The term "green en-
23	ergy' includes energy derived from coal pro-
24	duced in a manner that—

1	(i) sequesters carbon from carbon di-
2	oxide emissions at a minimum 85 percent
3	capture rate on an annual basis; and
4	(ii) complies with section 1421(d) of
5	the Safe Drinking Water Act (42 U.S.C.
6	300h(d)).
7	(5) Institution of higher education.—The
8	term "institution of higher education" has the
9	meaning given the term in section 101 of the Higher
10	Education Act of 1965 (20 U.S.C. 1001)).
11	(6) Renewable energy.—The term "renew-
12	able energy" means electric energy generated at a
13	facility (including a distributed generation facility)
14	from solar, wind, fuel cells, biomass, geothermal,
15	ocean energy, or landfill gas.
16	(7) Secretary.—The term "Secretary" means
17	the Secretary of Energy.
18	(8) Target area.—The term "target area"
19	means—
20	(A) an area that has experienced a signifi-
21	cant loss of manufacturing employment;
22	(B) an area with a large manufacturing
23	capacity;

1	(C) an area with an unemployment rate
2	that is higher than the national average unem-
3	ployment rate; and
4	(D) priority for an area that includes a
5	brownfield site (as defined in section 101 of the
6	Comprehensive Environmental Response, Com-
7	pensation, and Liability Act of 1980 (42 U.S.C.
8	9601)).
9	SEC. 3. ESTABLISHMENT OF PROGRAM.
10	The Secretary shall establish a green technology in-
11	vestment program to develop high-tech green research ca-
12	pabilities, promote green innovation and green energy in-
13	vestment, and increase scientific knowledge that may re-
14	veal the basis for new or enhanced products, equipment
15	or processes, in target areas by—
16	(1) assisting in the research and development of
17	projects that design, create, or formulate new or en-
18	hanced products, equipment, or processes;
19	(2) expanding and supporting world-class re-
20	search facilities;
21	(3) supporting capital formation and the devel-
22	opment of innovative products; and
23	(4) financing advanced manufacturing tech-
24	nologies to help new and existing industries become

1	more productive, more environmentally protective,
2	and carbon-neutral.
3	SEC. 4. GREEN TECHNOLOGY INVESTMENT CORPORATION.
4	(a) Establishment.—
5	(1) IN GENERAL.—There is established in the
6	Department of Energy a corporation to be known as
7	the "Green Technology Investment Corporation".
8	(2) Meetings.—The Corporation shall meet at
9	least 4 times during each fiscal year.
10	(3) Rules for corporation business.—Not
11	later than 1 year after the date of enactment of this
12	Act, the Corporation shall establish rules for the
13	conduct of business of the Corporation.
14	(4) APPLICABLE AUTHORITY.—The Corporation
15	shall be subject to—
16	(A) subchapter II of chapter 5, and chap-
17	ter 7, of title 5, United States Code (commonly
18	known as the "Administrative Procedure Act");
19	and
20	(B) all other Federal law applicable to
21	quasi-autonomous agencies within the Depart-
22	ment of Energy.
23	(5) Administrative costs.—The Secretary
24	shall—

1	(A) be responsible for paying all adminis-
2	trative costs of the Corporation; and
3	(B) in conjunction with the Board of Di-
4	rectors of the Corporation, take every reason-
5	able action to reduce and minimize administra-
6	tive costs of carrying out this section and the
7	program.
8	(b) Board of Directors.—
9	(1) In general.—The Board of Directors of
10	the Corporation shall consist of 7 members, ap-
11	pointed by the President, by and with the advice and
12	consent of the Senate, who are—
13	(A) leaders from industry, labor, academia,
14	government, and nongovernment organizations;
15	and
16	(B) selected based on having the necessary
17	expertise—
18	(i) to build world-class applied re-
19	search capability;
20	(ii) to assist entrepreneurial
21	innovators in accelerating formation and
22	attraction of technology-based businesses;
23	(iii) to create product innovation;
24	(iv) to market the manufacturing
25	competitiveness of the United States;

1	(v) to create domestic jobs and skills
2	development opportunities in emerging do-
3	mestic markets; and
4	(vi) to evaluate and advise on environ-
5	mental sustainability and climate change.
6	(2) Chairperson.—The President shall ap-
7	point, by and with the advice and consent of the
8	Senate, 1 member of the Board of Directors to serve
9	as Chairperson
10	(c) TERM OF SERVICE.—
11	(1) IN GENERAL.—Each member of the Board
12	of Directors shall be appointed for a term of 5 years.
13	(2) Additional Terms.—The President may
14	appoint, by and with the advice and consent of the
15	Senate, a member of the Board to serve additional
16	terms of service.
17	(d) Responsibilities.—The Corporation shall allo-
18	cate funds, provide grants, and carry out programs under
19	section 6, for all phases of technology commercialization,
20	in accordance with this Act.
21	SEC. 5. GREEN TECHNOLOGY INVESTMENT FUND.
22	(a) Establishment.—There is established in the
23	Treasury of the United States a fund, to be known as the
24	"Green Technology Investment Fund" (referred to in this

1 section as the "Fund"), consisting of such amounts as are

2 appropriated to the Fund under section 10.

## (b) Expenditures From Fund.—

- (1) In General.—Subject to paragraph (2), on request by the Corporation, the Secretary of the Treasury shall transfer from the Fund to the Corporation such amounts as the Corporation determines are necessary to provide grants, loans, and other assistance, and otherwise carry out programs, under this Act (other than section 8).
  - (2) ADMINISTRATIVE EXPENSES.—An amount not exceeding 10 percent of the amounts in the Fund shall be available for each fiscal year to pay the administrative expenses necessary to carry out this Act.

#### (c) Transfers of Amounts.—

- (1) In General.—The amounts required to be transferred to the Fund under this section shall be transferred at least monthly from the general fund of the Treasury to the Fund on the basis of estimates made by the Secretary of the Treasury.
- (2) Adjustments.—Proper adjustment shall be made in amounts subsequently transferred to the extent prior estimates were in excess of or less than the amounts required to be transferred.

## 1 SEC. 6. COMPONENT PROGRAMS.

2	(a) Green Development Loans.—The Corpora-
3	tion shall establish and carry out a loan program to carry
4	out the purposes described in section 3 (including con-
5	ducting, or providing for the conduct of, scientific or tech-
6	nological inquiry and experimentation in the physical
7	sciences).
8	(b) Green Markets Program.—The Corporation
9	shall establish and carry out a grant program—
10	(1) to assist entities, including entities that are
11	not eligible for small business innovative research
12	funding, to receive grants to commercialize green en-
13	ergy products; and
14	(2) to assist small and medium-sized businesses
15	with funding to acquire, renovate, or construct facili-
16	ties or purchase of equipment for—
17	(A) research programs;
18	(B) technology development;
19	(C) product development; and
20	(D) commercialization programs.
21	(c) Green Redevelopment, Opportunity, and
22	WORKFORCE GRANTS.—The Corporation shall establish
23	and carry out a grant program—
24	(1) to assist small and medium-sized businesses
25	in accelerating new product development and com-
26	mercialization of technology products;

1	(2) to assist small and medium-sized businesses
2	in capitalizing on early-stage investment, particularly
3	those businesses that provide evidence of a capability
4	to meet a green marketplace need;
5	(3) to create and maintain jobs within the
6	United States;
7	(4) to assist local governments in improving in-
8	frastructure for related businesses in accordance
9	with this section;
10	(5) to seek and develop innovative ways of as-
11	sisting businesses and communities in achieving the
12	goals of this Act;
13	(6) to redeploy underused manufacturing capac-
14	ity;
15	(7) to capitalize on export opportunities;
16	(8) to revitalize depressed manufacturing com-
17	munities; and
18	(9) to search for and develop innovative ways to
19	design environmentally protective technologies and
20	best practices and demonstrate commercial green en-
21	ergy production.
22	(d) Green Energy Manufacturing Loans.—The
23	Corporation shall establish a program to encourage finan-
24	cial institutions approved by the Corporation to make
25	loans to for-profit or nonprofit small businesses that are

1	having difficulty obtaining business loans through conven-
2	tional underwriting standards.
3	(e) Green Energy Community Pilot Program.—
4	(1) In general.—The Corporation shall estab-
5	lish a pilot program under which the Corporation
6	shall provide grants to 5 green energy communities
7	designated by the Corporation to assist the commu-
8	nities—
9	(A) to establish models for green energy
10	communities;
11	(B) to reduce the traditional energy con-
12	sumption of the communities by using more
13	green energy and reducing energy consumption
14	through innovative efficiency programs; and
15	(C) to lower energy costs for consumers
16	and local government organizations.
17	(2) Eligibility.—To be eligible for designa-
18	tion as a green energy community under this sub-
19	section, a community shall be a target area.
20	(3) Duration.—
21	(A) In general.—The Corporation shall
22	make grants to green energy communities des-
23	ignated under this subsection for a term of 10
24	vears.

1	(B) Renewal.—Grants made to a green
2	energy community under this subsection may be
3	renewed for additional 10-year terms if the
4	community continues to meet the eligibility re-
5	quirements of paragraph (2).
6	(f) Green Energy Institution of Higher Edu-
7	CATION PILOT PROGRAM.—
8	(1) In general.—The Corporation shall estab-
9	lish a pilot program under which the Corporation
10	shall provide grants to 5 green energy institutions of
11	higher education designated by the Corporation to
12	assist the institutions of higher education—
13	(A) to establish models for green energy
14	institutions of higher education;
15	(B) to reduce the traditional energy con-
16	sumption of the institutions of higher education
17	by using more green energy and reducing en-
18	ergy consumption through innovative efficiency
19	programs; and
20	(C) to lower energy costs for the institu-
21	tions of higher education and students.
22	(2) Eligibility.—To be eligible for designa-
23	tion as a green energy institution of higher edu-
24	cation under this subsection, an institution of higher
25	education shall be located in a target area.

1	(3) Duration.—The Corporation shall make
2	grants to green energy institutions of higher edu-
3	cation designated under this subsection for a term of
4	10 years.
5	(g) NATIONAL GUARD BASE GREEN ENERGY GRANT
6	Pilot Program.—
7	(1) In General.—The Corporation shall estab-
8	lish a pilot program under which the Corporation
9	shall provide grants to 5 States for green energy
10	National Guard bases designated by the Corporation
11	to assist the National Guard bases in those States—
12	(A) to establish models for green energy
13	National Guard bases;
14	(B) to reduce the traditional energy con-
15	sumption of the National Guard bases by using
16	more green energy and reducing energy con-
17	sumption through innovative efficiency pro-
18	grams; and
19	(C) to lower energy costs for the National
20	Guard and States.
21	(2) Eligibility.—To be eligible for designa-
22	tion as a green energy National Guard base under
23	this subsection, a National Guard base shall be lo-
24	cated in a target area.

1	(3) Duration.—The Corporation shall make
2	grants to green energy National Guard bases des-
3	ignated under this subsection for a term of 10 years.
4	(h) Green Energy Technology Internship Pro-
5	GRAM.—
6	(1) In General.—The Corporation shall estab-
7	lish a green energy technology internship program
8	under which—
9	(A) students and educators at colleges and
10	universities in the United States are paired
11	with businesses of all sizes in the United States;
12	and
13	(B) those businesses are encouraged—
14	(i) to develop cutting-edge, high-tech
15	skills in participating students; and
16	(ii) to ultimately offer full-time em-
17	ployment to those students after gradua-
18	tion.
19	(2) Goal.—The Corporation shall establish as
20	a goal for the green energy technology internship
21	program the reimbursement by the Corporation, of
22	not more than the greater of 50 percent or \$5,000
23	of the wages paid to a participating student or edu-
24	cator, on the condition that, in the case of a partici-
25	pating student, the business strives for the possi-

1	bility of full-time employment of the student after
2	graduation.
3	(3) Requirements.—The Corporation shall es-
4	tablish requirements for participation in the green
5	energy technology internship program, including re-
6	quirements relating to—
7	(A) the eligibility of students, educators,
8	and businesses to participate in the program;
9	and
10	(B) application contents and procedures.
11	(i) Green Energy Technology Apprenticeship
12	Program.—
13	(1) In general.—The Corporation shall estab-
14	lish a green energy technology apprenticeship pro-
15	gram under which—
16	(A) apprentices and employers in the
17	United States are paired with businesses of all
18	sizes in the United States; and
19	(B) those businesses are encouraged—
20	(i) to develop cutting-edge, high-tech
21	skills in participating students;
22	(ii) to ultimately offer full-time em-
23	ployment to those students after comple-
24	tion; and

1	(iii) to work closely with organized
2	labor.
3	(2) GOAL.—As a goal for the green energy
4	technology apprenticeship program, the Corporation
5	shall, to the maximum extent practicable, provide re-
6	imbursement for not more than the higher of 50
7	percent or \$5,000 of the wages paid to a partici-
8	pating apprentice, if the business paired with the ap-
9	prentice agrees to make every effort to offer full-
10	time employment to the apprentice on the comple-
11	tion of the apprenticeship.
12	(3) Requirements.—The Corporation shall es-
13	tablish requirements for participation in the green
14	energy technology apprenticeship program, including
15	requirements relating to—
16	(A) the eligibility of apprentices, organized
17	labor, trades, and businesses to participate in
18	the program;
19	(B) partnerships with organized labor ap-
20	prenticeship programs; and
21	(C) application contents and procedures.
22	SEC. 7. CRITERIA FOR PROVISION OF GRANTS, LOANS, AND
23	OTHER ASSISTANCE.
24	(a) Eligible Projects.—

1	(1) In general.—The Corporation shall pro-
2	vide grants, loans, and other assistance in accord-
3	ance with the programs under section 6 for projects
4	that, as determined by the Corporation—
5	(A) offer the best technology, research, and
6	commercialization for the United States;
7	(B) permit anticipation and action on mar-
8	ket opportunities;
9	(C) encourage industry involvement;
10	(D) facilitate investment at the intersec-
11	tion of core competency areas;
12	(E) recruit world-class talent and high-
13	growth companies;
14	(F) create economic opportunity for target
15	areas;
16	(G) engage regional partners;
17	(H) emphasize accountability and metrics;
18	(I) upon completion, will serve as sites and
19	facilities primarily intended for commercial, in-
20	dustrial, or manufacturing use; and
21	(J) advance environmental protection.
22	(2) Priority.—In carrying out paragraph (1),
23	the Corporation—
24	(A) shall give priority to—

1	(i) renewable energy, carbon-neutral
2	projects; and
3	(ii) projects that advance environ-
4	mentally protective goals, with a particular
5	emphasis on best practices and innovative
6	technology that reduce negative impacts on
7	a commercial scale; and
8	(B) may consider and give priority to the
9	potential of a project to develop or improve in-
10	novative, cutting-edge technology for green en-
11	ergy projects that are carbon neutral.
12	(b) Basis.—A grant, loan, or other assistance pro-
13	vided under this Act—
14	(1) shall be based on the best available tech-
15	nology, research, and commercialization, with a
16	focus on diversity of green technologies; and
17	(2) shall not be provided solely on a geo-
18	graphical basis.
19	(c) Eligible Applicants.—The Corporation may
20	provide a grant, loan, or other assistance under this Act
21	to—
22	(1) a political subdivision or nonprofit economic
23	development organization;

1	(2) a municipality, local government, commu-
2	nity, or institution of higher education (including a
3	technical educational institution); and
4	(3) a private, for-profit entity, with the unani-
5	mous approval by the Board of Directors of the Cor-
6	poration.
7	(d) Funds Allocated.—The Corporation shall de-
8	termine the maximum and minimum amount provided for
9	each program and program recipient under this Act in
10	order to maximize the purposes of this Act.
11	(e) Report.—Not later than 1 year after the date
12	of enactment of this Act, and annually thereafter, the Cor-
13	poration shall submit to Congress a report that describes
14	all activities of the Corporation carried out using funds
15	made available under this Act, including, for the year cov-
16	ered by the report, a description of—
17	(1) each grant, loan, or other award of assist-
18	ance provided under this Act; and
19	(2) the reason for each grant, loan, or other
20	award.
21	SEC. 8. ENERGY EFFICIENCY GRANTS.
22	(a) IN GENERAL.—The Secretary shall establish an
23	energy efficiency grant program under which the Sec-

24 retary shall provide grants to eligible recipients, on a dol-

- 1 tion programs that are designed to reduce consumer en-
- 2 ergy use to the maximum extent practicable.
- 3 (b) Eligible Recipients.—Recipients that are eli-
- 4 gible to receive grants under this section include—
- 5 (1) energy producers;
- 6 (2) municipal power organizations; and
- 7 (3) rural electric cooperatives.
- 8 (c) Priority.—In making grants under this section,
- 9 the Secretary shall give priority to programs that are de-
- 10 signed to reduce consumer end-use of energy over pro-
- 11 grams that are designed to reduce the consumer use of
- 12 energy.
- 13 (d) REDUCTION IN ENERGY USES.—In making
- 14 grants under this section, the Secretary shall allocate
- 15 grants, and provide minimum and maximum award cri-
- 16 teria for the grants, in a manner that maximizes the re-
- 17 duction in energy use.
- 18 (e) AUTHORIZATION OF APPROPRIATIONS.—There is
- 19 authorized to be appropriated to carry out this section
- 20 \$150,000,000 for each of fiscal years 2009 through 2013.
- 21 SEC. 9. ADMINISTRATION.
- Notwithstanding any other provision of this Act, none
- 23 of the funds made available to carry out this Act may be
- 24 used to carry out any project, activity, or expense that
- 25 is not located within the United States.

### 1 SEC. 10. AUTHORIZATION OF APPROPRIATIONS.

- 2 There are authorized to be appropriated to the Fund
- 3 to carry out this Act (other than section 8), to remain
- 4 available until expended—
- 5 (1) \$1,000,000,000 for fiscal year 2009;
- 6 (2) \$5,000,000,000 for fiscal year 2010; and
- 7 (3) \$10,000,000,000 for each of fiscal years
- 8 2011 through 2013.

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